

10	20	30	40	50	60	70
GGAGGTATGGAGCTCTTCGATTAGCAAACCAAGGAGTCCGAAGATCTAAGGAGGGCTGGGGTTGACTCC						
SacI						
85	95	105	115	125	135	145
GAGAGCTCGAGCCAGTCCCAAGAACCTGGTCTTGACTCACGAGTTAGACTCCACTCAGAGGCTGACTGTCTCCAGG						
SacI						
XbaI						
160	170	180	190	200	210	220
GTCTACACCTCTAAGGGCGACACTGGCTCAAGGAGACTGCCCCGTTCTATATGGGATGAGGCCCTCACAGGGCAG						
235	245	255	265	275	285	295
CCAGTTGGATGGGTTGAGGTTGGCTGAGACATCAGAAACCC'AAGTCAAATGGCCTCAACCAGTAGAAATT						
310	320	330	340	350	360	370
CACCAAGCCCCGAGGCTAAGGTTGGCTGGACATTAGGGTTGGT'GATCCAGGAGCTCAACAGTGTCCCTGTAGGCC						
SacI						
385	395	405	415	425	435	445
CCAGCTCCTTCGCCCCACCCATCTCAGTGGCTGCTTCAGTGGCTCCCTCTCAAGGCCACAGGCTGATGTTGGCCAGGGGG						
BglII						
460	470	480	490	500	510	520
GCTTCATTATTGGCTCCTGGCAGTAGGGAAAGAGAAATGATGTCCTCCATGGGTCTTCTTAGGAATGT						
NcoI						
535	545	555	565	575	585	595
GGAAACCTTTTCCAGAAGTCTCTATGCTTCTATGTTGCTGCTGCTGACTTGGCCCTTCCTGAACCACTTCCTGAC						
610	620	630	640	650	660	670
TCCTGGACAGGATGTCAGTGGCTTAAGCTTGGGATCTAATAGTGACTTTACAAAGCCTCTTGAGAAGG						
ApAlI						
685	695	705	715	725	735	745
TGACATTGGAACCAAGGCTTGAGCAGACACAAACAAAGATTGCAGGGAGGGCATTGGCAGGTGGAGGAAACGGCAC						
BspMI-						
760	770	780	790	800	810	820
ATGCAAGAGCCCTGGCTGGAGTGGCTGATCAGTTGGTCAATCAGTTGGTCAATCAGGTGGCTGTCAGGCAACCCGGCC						
ApAI						
ECO01						

Fig. 1A-1

Title: Osteogenic Devices
Inventors: Oppermann et al.
Serial No.: Not yet assigned
Atty. Docket No.: STK-010C3
Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
SHEET 2 OF 30

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835	845	855	865	875	885	895
GGCACAGCCTGGCCTGCTGAGTATGACAGAGGCCCTGCGGAAGTTGAGGTGGAGAAAGACAGGTCA						
910	920	930	940	950	960	970
CTAGGAAAGCAATCCTCTCTGGTGGGGTGGAAAGGAAGGGTTGCCAGTGTGTGAGAGAGAACAGAC						
985	995	1005	1015	1025	1035	1045
AGACAGACACTCTCAATGTTACAAGTGTCTAGGCCCTGACCCGAATGCTTCCAATTACGTAGTTCTGGAAA						
EcoO	BsmI+	SnaBI				
1060	1070	1080	1090	1100	1110	1120
ACCCCTGATCATTTCACTACTCAAAGAACCTCGGGAGTGTCTCTGAAAGGTCACTAGGTTTGACTC						
1135	1145	1155	1165	1175	1185	1195
TCTGCTGTCTCATTTCTTGCTGGTGTGATGGTTGCTGCCAGGGCCCTGTCGGCATCCTCTGCC						
EcoO						
1210	1220	1230	1240	1250	1260	1270
CTGCAGGGATGAGTGTGGGGCTCACGAGTGTGAGGTGAGGTGAGGATCTCTTGAGCCAGGGCCT						
PstI	EcoO	BglII				
1285	1295	1305	1315	1325	1335	1345
GCAGTGGCCTTGTGTGAGGGCTGGAGGTTCGATTCCCTTATGGAAATCCAGGCAGATGTAGCATTAAACAA						
tI						
1360	1370	1380	1390	1400	1410	1420
CACGTTATAAAAGAACCCAGTGTCCGGAGGTTCAGAAGTATTATGGATAAGACTACATGAGAGGGAA						
1435	1445	1455	1465	1475	1485	1495
TGGGGCATGGCACCTCCCTTAGTAGGGCCTTGTGGGGTAGAAATGAGTTAAGGCAGGTAGACCTCTCGA						
tI	EcoO	BspMI-				
1510	1520	1530	1540	1550	1560	1570
ACTGGCTTTGAATCGGAAATTACCCCCCAGGCCGTTCTGGCTTCACTTGCTGTTCACATCAGCTTAAGATG						
1585	1595	1605	1615	1625	1635	1645
GAGGAACCTTGTGATGTGTGTGTGGCTCTGCTTCACTGGGCTCTGCTTCACTCCCTGTCAATGCAGAGAA						
1660	1670	1680	1690	1700	1710	1720
CAGCAGGACCCAGAGGCCGGCTTGTAAAGAACGAGCTGTATGTCAGGCTTCGGAGACCTGGCTGGCAGG						
StuI						
1735	1745	1755	1765	1775	1785	1795
BspMI						

Fig. 1A-2 ApaI EcoO

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1810 1820 1830 1840 1850 1860 1870
 GTCTTGTTCATCTGCCAGTTAAGACTCCAGTATCAAGTGGCTAGGGTACTTGGCTAAGGA
 1885 1895 1905 1915 1925 1935 1945
 TACAGGG. (APPROX. 1000 BASES) GGGAGCCAGCATGGGTGATGCCATTATGA
 1960 1970 1980 1990 2000 2010 2020
 GTTATTAGCCTCTGGAGGGCATGGAGGTGGTTAACGGTAAACTGCCAGTGTGTGACCA
 BspMI- DR
 B911 PF1
 MI 2035 2045 2055 2065 2075 2085 2095
 CCTAGTGGGTAGACCTGATGCTGACACCCGAGCTCCCTTCCCTGTGCCGGTCTGTCCAGAACACAGC
 aIII SacI N
 MI 2110 2120 2130 2140 2150 2160 2170
 CATGGATGTCCATTAGGATCAGCCAAGCCCCGTCCTGTCATTTCATTTTATGTTTTAGAAATGGG
 coI 2185 2195 2205 2215 2225 2235 2245
 GTCCTGGCTCTGTCAACCCAGGGCTGGGTGCAGTGGTGTGATCATAGCTCACCCAGCTTGA CGCCGTCTTCCACAT
 HindIII 2260 2270 2280 2290 2300 2310 2320
 CAGTCTACTAAGCTTGGACTATAGGCTAAAGACTATAGACTGGTCCCTCTTCATTCTTGGACCATGAGAGG
 BstXI 2335 2345 2355 2365 2375 2385 2395
 CCACCCATGTTCCCTGGCCCTGGCTCAGAACGGCATGGCTGAGGGCTTACCCRTGGTGTGAG
 ApaI
 EcoO
 2410 2420 2430 2440 2450 2460 2470
 CCTTCGGGGTTCTTCAGCATGGGGATGGCTCTGGCTCAGGGCTTCTGCATGGTTCCACACTCTCT
 2485 2495 2505 2525 2535 2545
 CTCCTCAGGACTGGATCATCGCGCCTGAAGGCTACGGCGCTACTACTGTGAGGGGAGTGTGCCTCCCTC
 MstII 2560 2570 2580 2590 2600 2610 2620
 TGAACCTCCATGACGCCAACCAACGCCATCGTGCAGACGGCTGGTGGCTCACGCCATCTGGGTGTGCG
 Bst
 2635 2645 2655 2665 2675 2685 2695
 TCACCTGGGGCAGGCTGGGGCCACCAAGCTCCAGATCCTGCTGGGGCTGAGTAGATGTCAGGCC
 BglII EcoO

Fig. 1A-3

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2710	2720	2730	2740	2750	2760	2770
ATGCCATGTCATCACTTTGGGGCCCTTGGCCGGTAAAMAAATCAAAATTGACTTTATGACTGGTT						
ApaI						
EcoO						
2785	2795	2805	2815	2825	2835	2845
GGTATAAGGAGTATAATCTTCGACCCCTGGAGTTCAATTTCATTCTCCTAAATTAAAGTAACCTAAAGTGT						
DraI						
2860	2870	2880	2890	2900	2910	2920
ATGGGCTCCTTGAGGATGCTTGAGTATTGTGGGTACGGTACGGCTAACAGGACTGGCCCTGGCTCA						
ApaI						
EcoO						
2935	2945	2955	2965	2975	2985	2995
TTTCCAGTAGGGAAACAGGTTAAACAGATGAGAAATTTCAGTGAAGGGCACAGTGTATCAGAAGCGGGCCACAGCAG						
3010	3020	3030	3040	3050	3060	3070
GATAATGGGATGGAGAGATGAGTGGGGACCCATGGGCCATTCAAGTTAACATTTCAGTCGGTCACCAAGGAAAGAT						
BstEII						
EcoO	NcoI					
3085	3095	3105	3115	3125	3135	3145
TCCATGTTGATAATGAGATTAAACGGTGGCCAGTCACGGGGACACTCAGTAGGTGTTATTCCCTGCTCTGCCAACAGCA						
3160	3170	3180	3190	3200	3210	3220
ACCATAGTGTATAAGAGGCTGTTAGGGATTTTGTCCTTGGCTTAAAGGTCAAGGGACCTTGGTTATGTA						
EcoO						
3235	3245	3255	3265	3275	3285	3295
GCTCCCTGTCATGAAACATCATCTGAGGCCATTCTGCCCTACTGATCATCCACCCCTGGCTTCCTGCTAGTGTAC						
BsmI+						
3310	3320	3330	3340	3350	3360	3370
AGAGAGGCTCACTACCAAGGACTACTCCCTCCTTCATTAGTAAATTGCTTCTGCTTCTGCTTGTCCCCGTCCGT						
SacI						
3385	3395	3405	3415	3425	3435	3445
GTGTTAAGTCCCTGGAGAAAMATCTCATCTATCCCTTCATTGATTTGATTTCTGCTCTTGTAGGGCAGGGGTTTGTGTT						
3460	3470	3480	3490	3500	3510	3520
CTTTGTTGTTTTAAGTGTGGTTTCCAAAGGCCCTGCTCCCTCAATTGAAACTTCAAAGCCCTCAT						
3535	3545	3555	3565	3575	3585	3595
TGGGATTGAAGGTCTTAGGCTCCTCCCAACAGAAGTGGAAACAGAACAGAAGTGTGGATGTGCTGTGCTG						
EcoOMstII						

Fig. 1A-4

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3610	3620	3630	3640	3650	3660	3670
TGCCACTATCCCTGGAAAGGTGCCAGGCATGTCTCCCCGGCTGCCAGGGACACATCTATCCTTCTCCAACCC						
3685	3695	3705	3715	3725	3735	3745
CTGCCTTCATGCCCATGGAACAGGAGTGGCACCTACTGCCATGCCCTGTGTGCACCTATTCCATCAGTATTCCACAGAGAT						
BgII	NcoI		ApAlI		BgII	
3760	3770	3780	3790	3800	3810	3820
CTGCAGGATCAAAGTGAATTCTCCAGGGATTGTGAAATGATGGCATTGTGTCATGTTAAAGGGGGCAACTGT			DraI			
I						
PstI	3835	3845	3855	3865	3875	3895
	CTTCTAGAGAGTCCTGATGAAATGCTTCCAGGAAATGAGCTGATGGCTGGAAATTGCTTAAATCATTCAG					
XbaI	3910	3920	3930	3940	3950	3970
	GTGGAGCAGGGGGAAAGGGTATGGATGTTAAAGAGTGTGAAATTGTCATATAAAATGTGTAAAAAGCATGCT		DraI			
BSPMI-						
3985	3995	4005	4015	4025	4035	4045
	GGCCTATGTCAGCTCACAGCCTGGAGGGTAAACAGAGTGCCAGTCAGTCAAGGCCTGGCACCTACAG					
4060	4070	4080	4090	4100	4110	4120
	TGCTGGAAACCCAGAACGTTCACGGTGAACAAACAGGACAGTGGAAATCTCTGGCCCTGTCTGAACACGTGGC					
4135	4145	4155	4165	4175	4185	4195
	AGATCTGCTAACACTGATCTGGTGGCTAGCTTAGGGTGAATGGGGCTTCCCTTAGTTGCTTAGTGGCTTAGT					
BgIII						
4210	4220	4230	4240	4250	4260	4270
	CCCCGCTATTCCCTATTGTCCTACCTCGGGCTTATTTGCTTATCAGTGGACCTCAGCGAGGGCACTCATAGGCATT					
4285	4295	4305	4315	4325	4335	4345
	GAGTCTATGTCCTCCACATCCTCTGTAAAGGTGCAGAGAAGTCCATGAGCAAGATGGAGGCACTTCTAGTG					
4360	4370	4380	4390	4400	4410	4420
	GGTCCAAGTCAAGGACACTTCAAGCAATCTACAGTGCACAGGGCAGTTCCCCAACAGAGAAATTACCTGGCTCTG					
	ApAlI					
4435	4445	4455	4465	4475	4485	4495
	AATGTCGGATCTGGCCCCCTCCCTCCCCACTGTATAATGTGAAACCTCTATGCTTGTCCCTGTCTGCAA					
4510	4520	4530	4540	4550	4560	4570
	ACAGGGATAATCCCGAGAACACTGAGTTGTCCATGTAAGTGCCTAGAAACAGGAGGTGGCTGGGGAGTGTGTCAC					

Fig. 1A-5

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4585 4595 4605 4615 4625 4635 4645
CTGGCACTCATTATGCCAGACAGGATGTTCTTTATAGAACGTTGGAGGGCCAGTTAGAACGAACTCACCGCT
pMI+
PstI 4660 4670 4680 4690 4700 4710 4720
TCTCACCCTGGCCATGTTTGGTGTGTTCAAGGTCCACTTCATCAACCCGGAAACGGTGGCCAAAGCCCTGCT
Pf1MI 4735 4745 4755 4765 4775 4785 4795
CTGGCCCACGGCTCAATGCCATCTCGTCTACTTCGATGACAGGCTCAAACGTCATCCTGAAAGAAATACA
4810 4820 4830 4840
GAAACATGGTGGTCCGGGCCTGGCTGCCACTAGCTCCTCCGA

Fig. 1A-6

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CONSENSUS PROBE	20	30	40	50	60	70
GATCCCTAATGGGCTGTACGTGGACTTCCAGCGGACGTGGCTGGACCTGGGACTGGGACTG	***	***	***	***	***	***
TGTAAGAACGAGGTGTATGTCAGCTTCGAGAACCTGGCTGGCAGGACTGGATCATCGGCCCTGAAG	OP4	28	38	48	58	68
80	90	100	110	120	130	140
ACTTCCGACGCCCTACTACTGCTCCGGAGCCCTGCCAGTTCCCCTCTGGGGATCACTTCAACAGCACCACCA	***	***	***	***	***	***
GCTACCGCGGCTACTACTGTTGAGGGGAGTGTGCCCTCTGAACCTCCTACATGAACGCCACCAACCA	98	108	118	128	138	148
150	160	170	180	190	200	210
CGCCGTGGTGCAGACCCCTGGTGAACAAACATGAACCCCGGCAAGGTACCCCAAGGCCCTGCTGCCAC	***	***	***	***	***	***
CGCCATCGTGCAGACGGCTGGTCCACTTCATCAACCCGGAAACGGTGCCCAAGGCCCTGCTGTGCCACG	168	178	188	198	208	218
220	230	240	250	260	270	280
GAGCTGTCCGCCATCAGCATGGCTGTACCTGGACGGAGAATTCCACCGTGGTGGACTACCAAGGAGA	***	***	***	***	***	***
CAGCTCAATGCCATCTCGTCTACTTCGATGACAGCTCAACGTCATCCCTGAAGAAATACAGAAACA	238	248	258	268	278	288
290	300	310				
TGACCGTGGTGGGCTGGGGCTGCCGCTAACTGCA	***	***	***	***	***	***
TGGTGGTCCGGGCCTGTTGGCTGCCACTAGCTCCT	308	318	328			

Fig. 1B

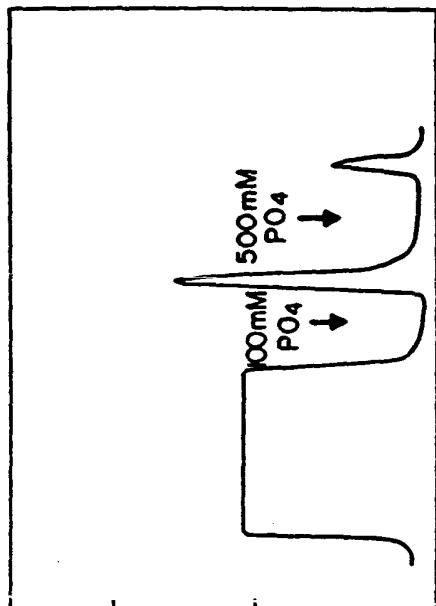


Fig. 2A

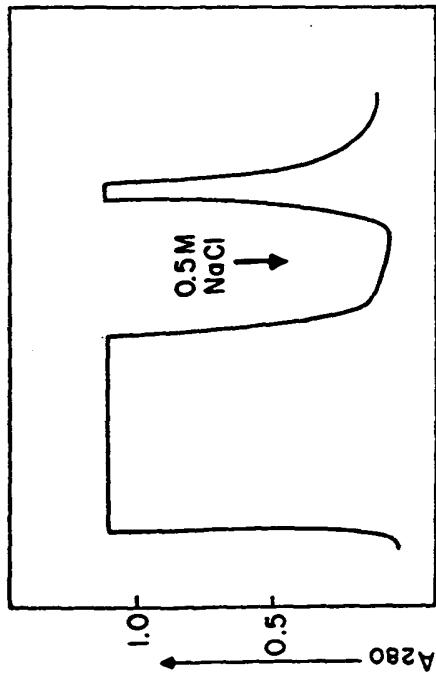
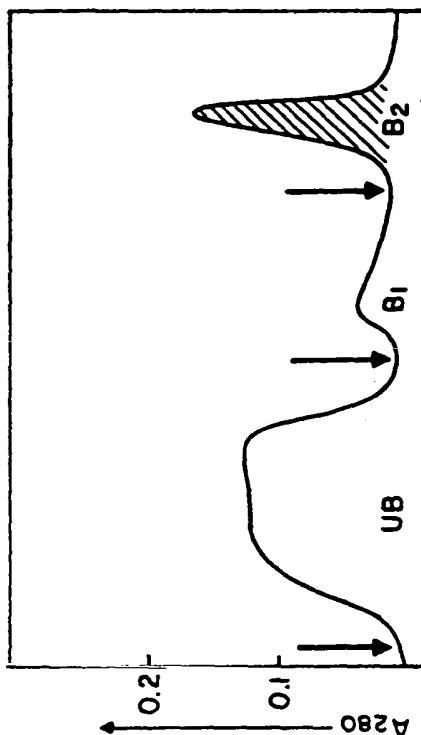


Fig. 2B



BUFFER: 4M GUANIDINE HCl, 50mM TRIS, PH 7.0

UB: 6MUREA 50mMTRIS 0.1M NaCl PH 7.0
B1: 6MUREA 50mMTRIS 0.15M NaCl PH 7.0
B2: 6MUREA 50mMTRIS 0.5M NaCl PH 7.0

Fig. 2C

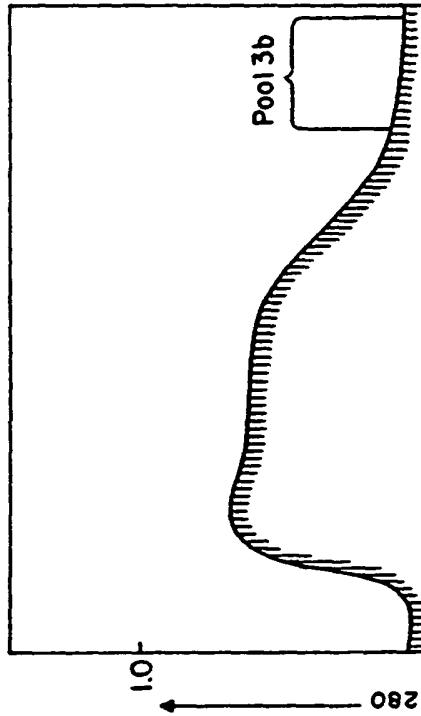


Fig. 2D

Title: Osteogenic Devices
Inventors: Oppermann et al.
Serial No.: Not yet assigned
Atty. Docket No.: STK-010C3
Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
SHEET 9 OF 30

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Fig. 3A



Fig. 3B



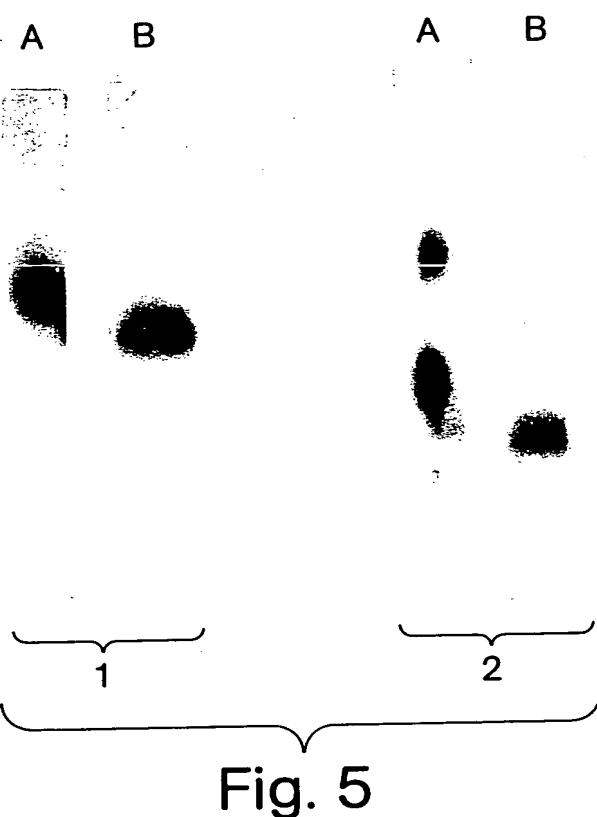
Fig. 4A



Fig. 4B

Title: Osteogenic Devices
Inventors: Oppermann et al.
Serial No.: Not yet assigned
Atty. Docket No.: STK-010C3
Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
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Title: Osteogenic Devices
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Serial No.: Not yet assigned
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Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
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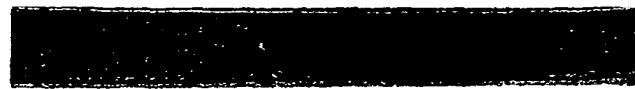


Fig. 6E



Fig. 6D



Fig. 6C



Fig. 6B

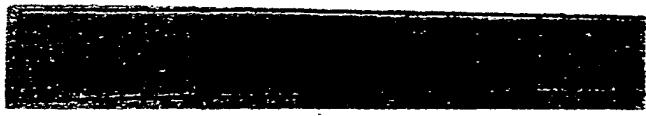


Fig. 6A

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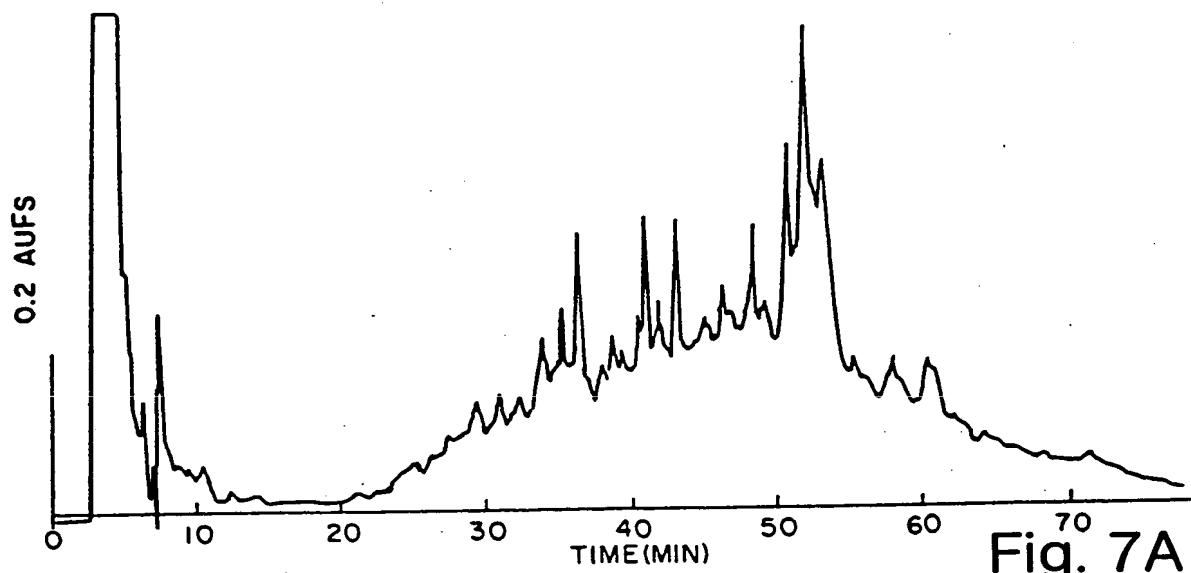


Fig. 7A

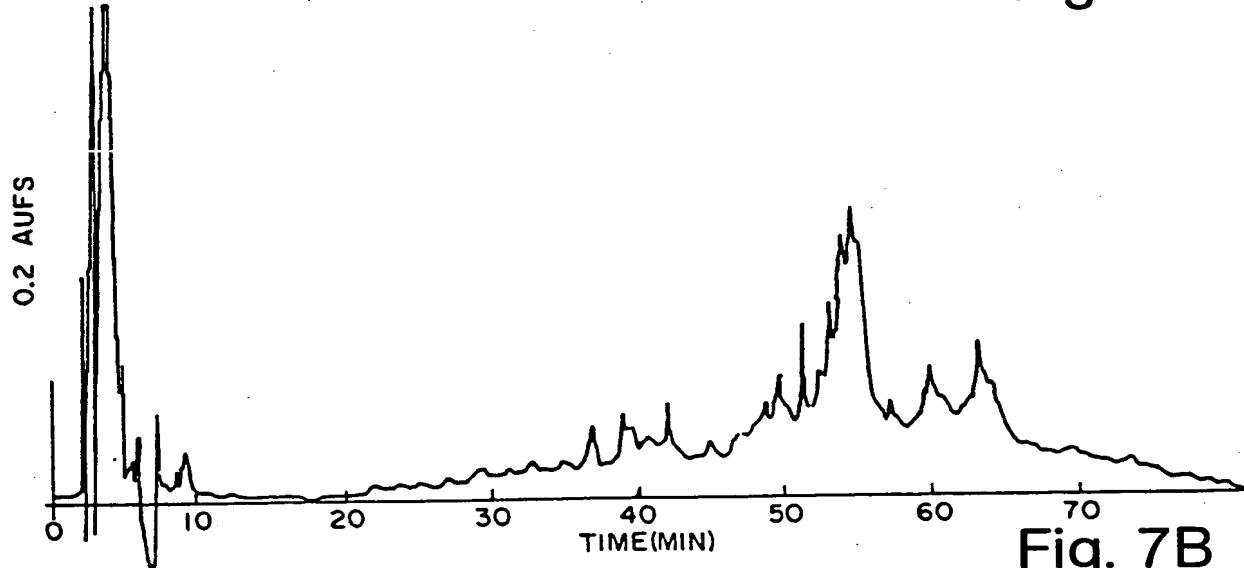


Fig. 7B

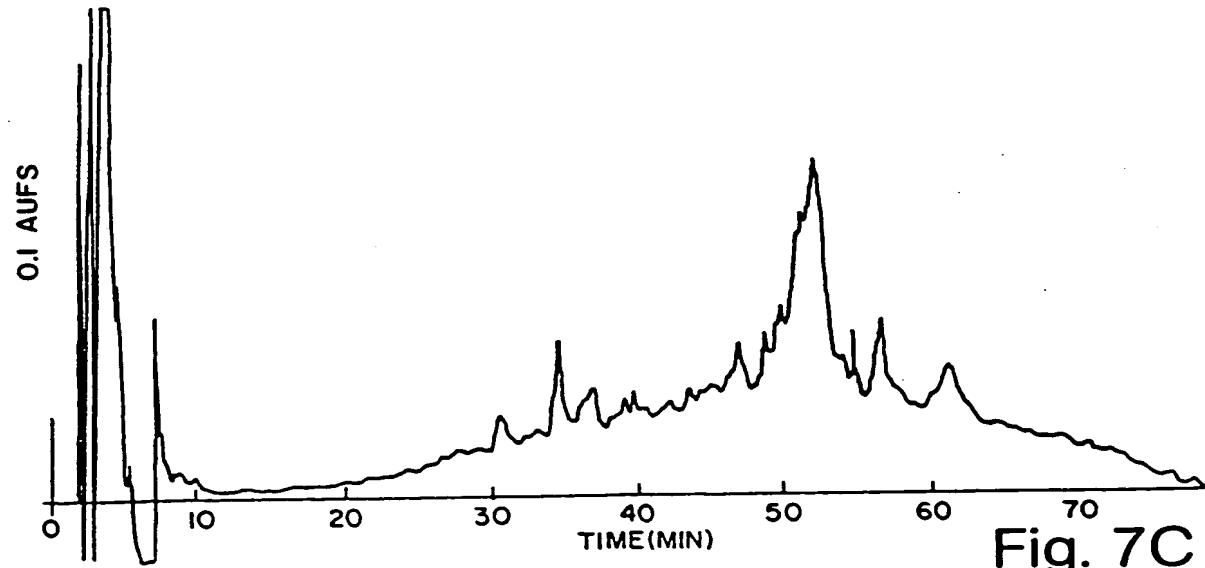


Fig. 7C

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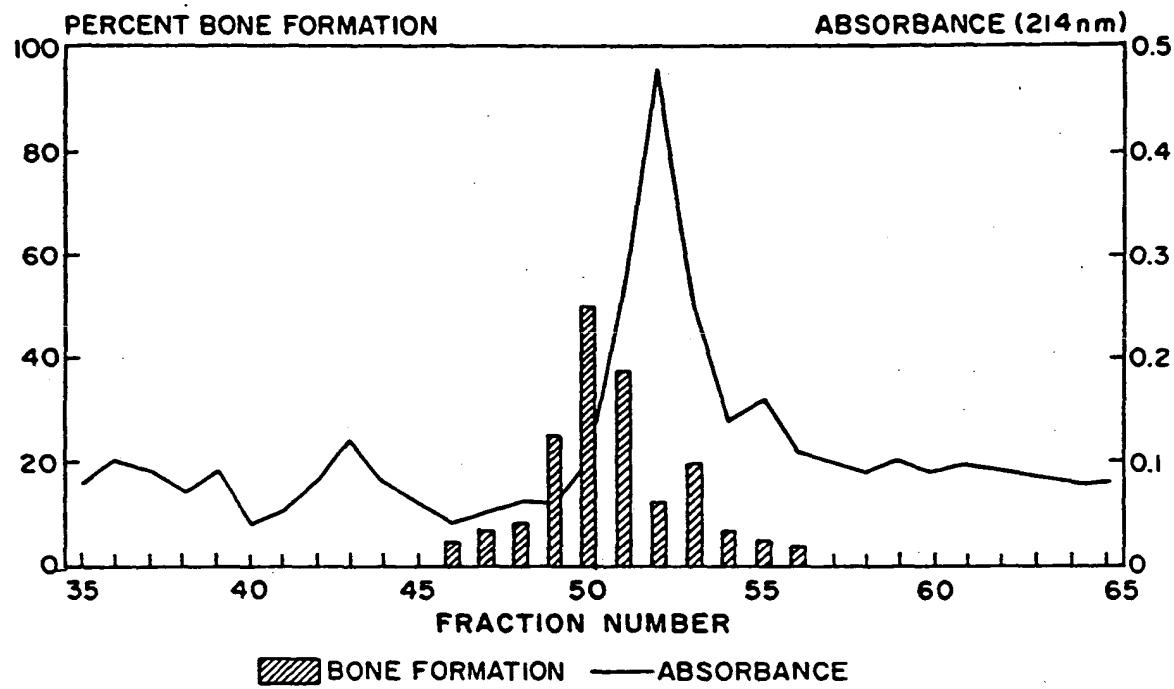


Fig. 8

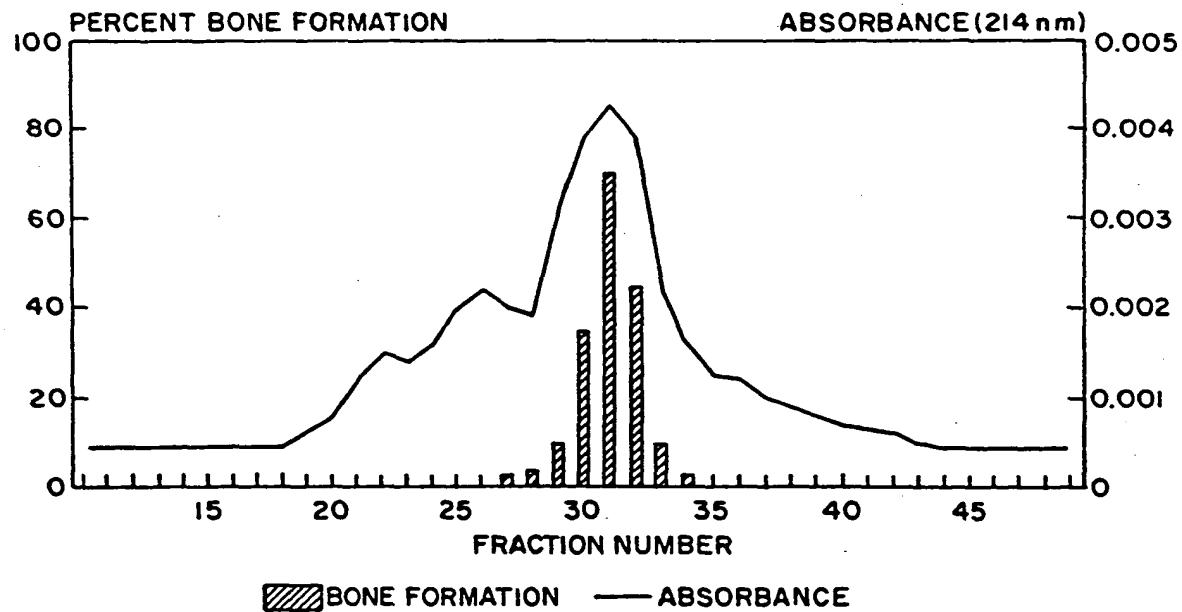


Fig. 9

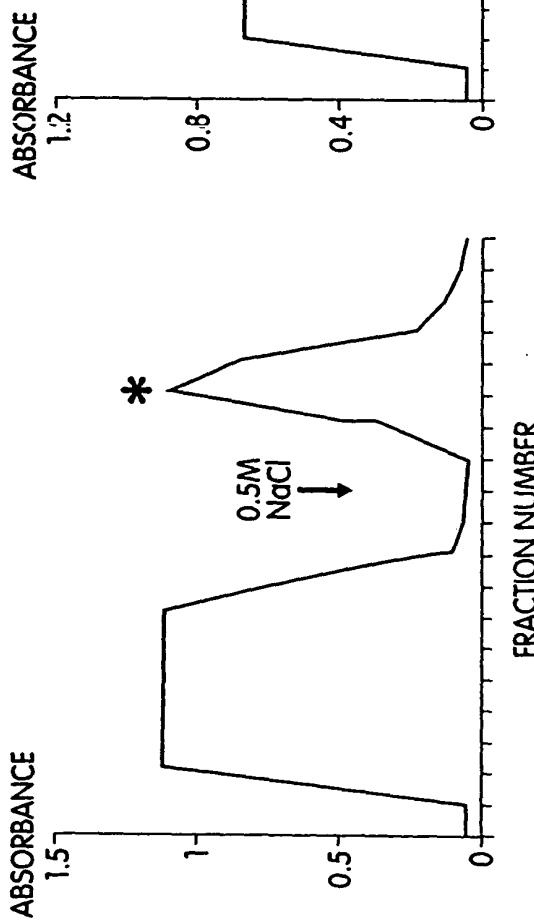


Fig. 10B

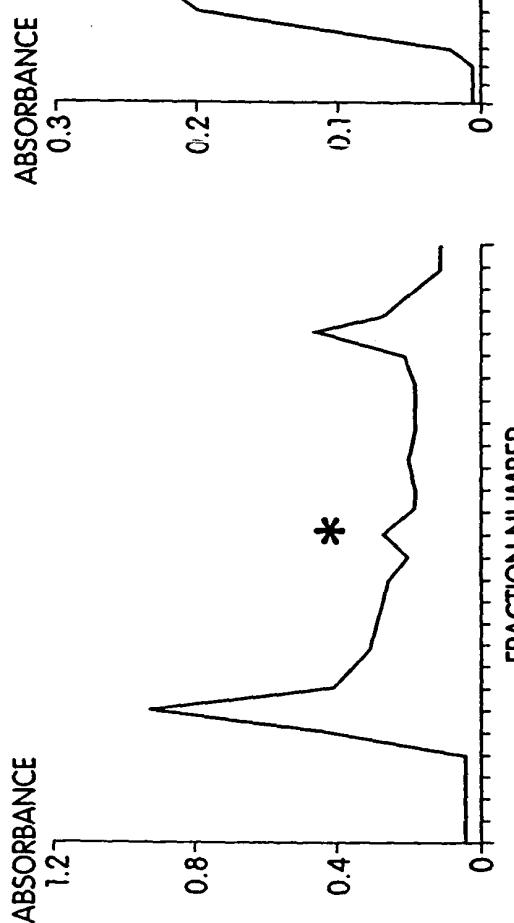
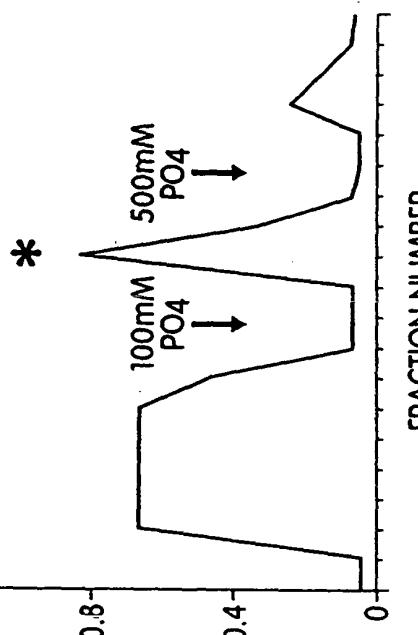


Fig. 10C

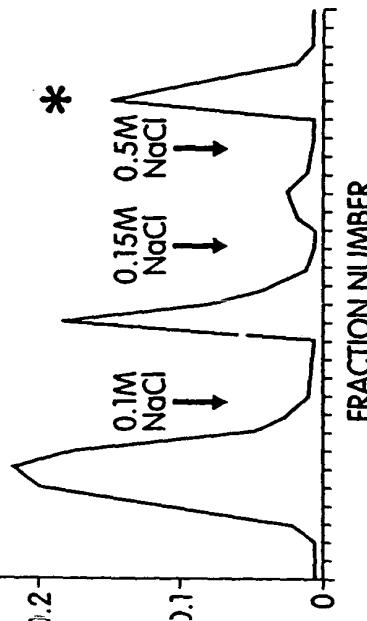


Fig. 10D

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DOSE CURVES
PERCENT BONE FORMATION

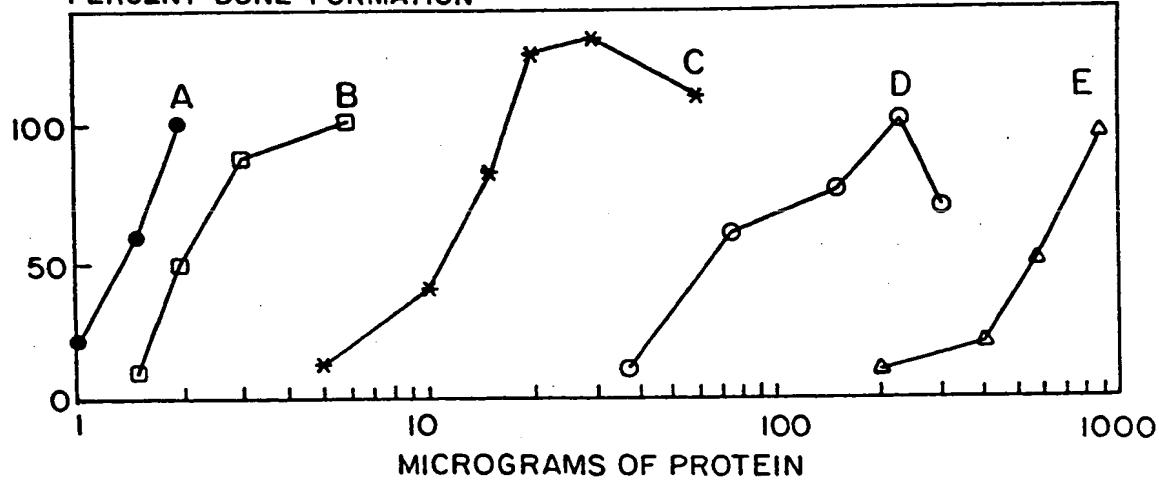


Fig. 11

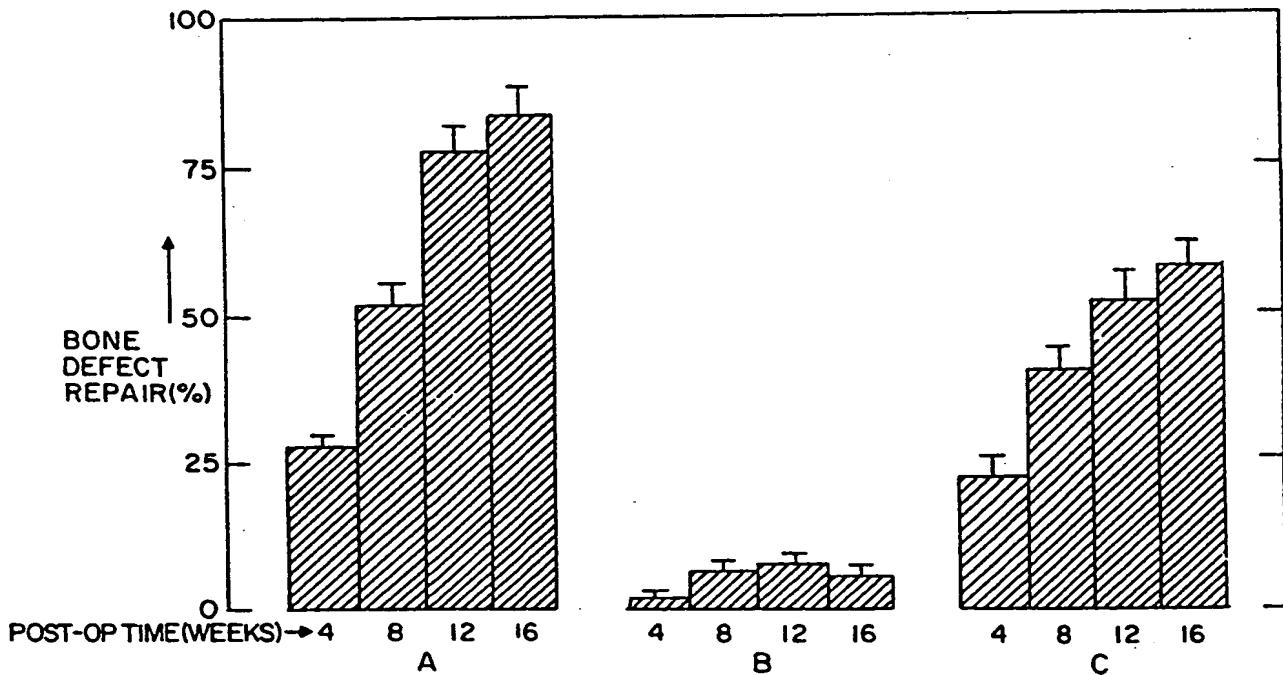


Fig. 12

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10 20 30 40 50
GATCCTAATGGGCTGTACGTGGACTTCCAGCGCGACGTGGGCTGGGACGA
D P N G L Y V D F Q R D V G W D D

60 70 80 90 100
CTGGATCATGCCCGTCGACTTCGACGCCTACTACTGCTCCGGAGCCT
W I I A P V D F D A Y Y C S G A

110 120 130 140 150
GCCAGTTCCCCTCTGCGGATCAATTCAACAGCACCAACCACGCCGTGGTG
C Q F P S A D H F N S T N H A V V

160 170 180 190 200
CAGACCCTGGTGAACAACATGAACCCCCGGCAAGGTACCCAAGCCCTGCTG
Q T L V N N M N P G K V P K P C C

210 220 230 240 250
CGTGCCCACCGAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATT
V P T E L S A I S M L Y L D E N

260 270 280 290 300
CCACCGTGGTGCTGAAGAACTACCAGGAGATGACCGTGGTGGCTGCGGC
S T V V L K N Y Q E M T V V G C G

310
TGCCGCTAACTGCAG
C R *

Fig. 13

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SDS GEL ELUTION OF OSTEOGENIC ACTIVITY
 CALCIUM CONTENT (ug/mg tissue)

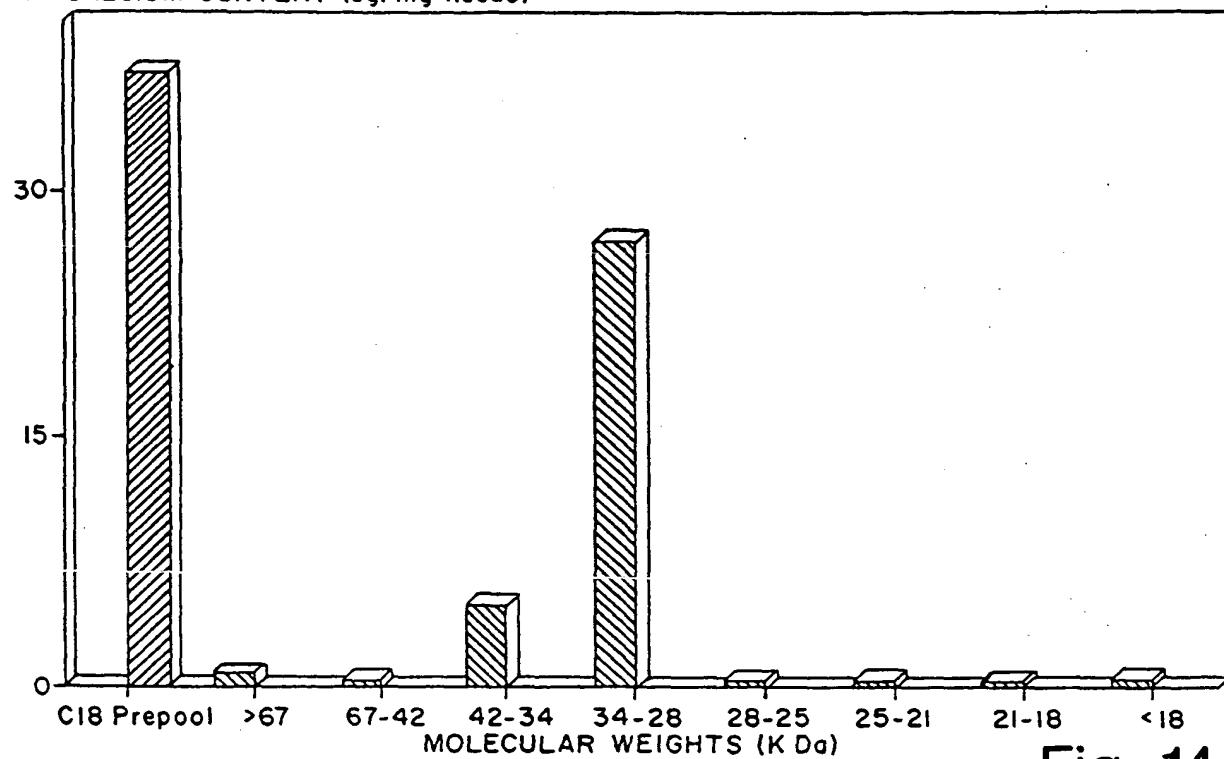


Fig. 14

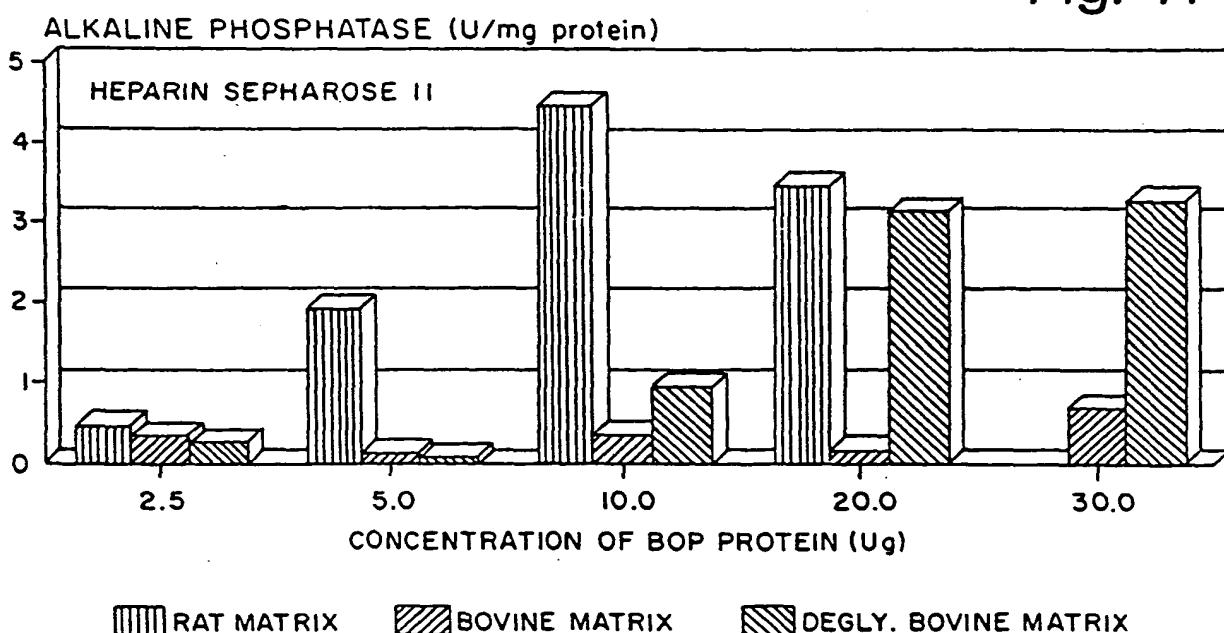


Fig. 19

Title: Osteogenic Devices
Inventors: Oppermann et al.
Serial No.: Not yet assigned
Atty. Docket No.: STK-010C3
Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
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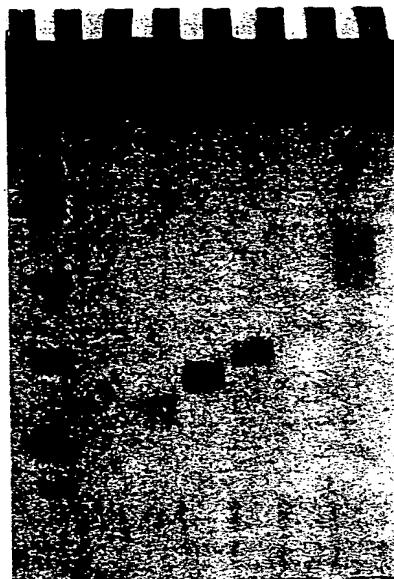


Fig. 15

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HPLC PROFILE
ENDO ASP-N DIGEST - PREPOOL 16K OP SUBUNIT

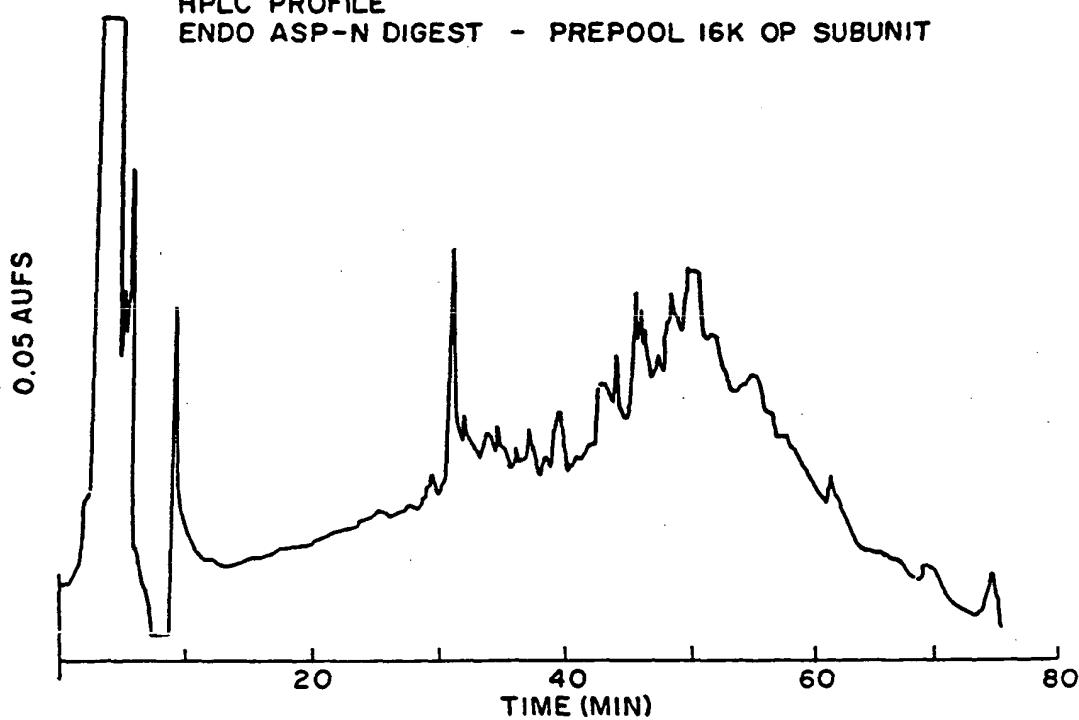


Fig. 16A

HPLC PROFILE
ENDO ASP-N DIGEST - PREPOOL 18K OP SUBUNIT

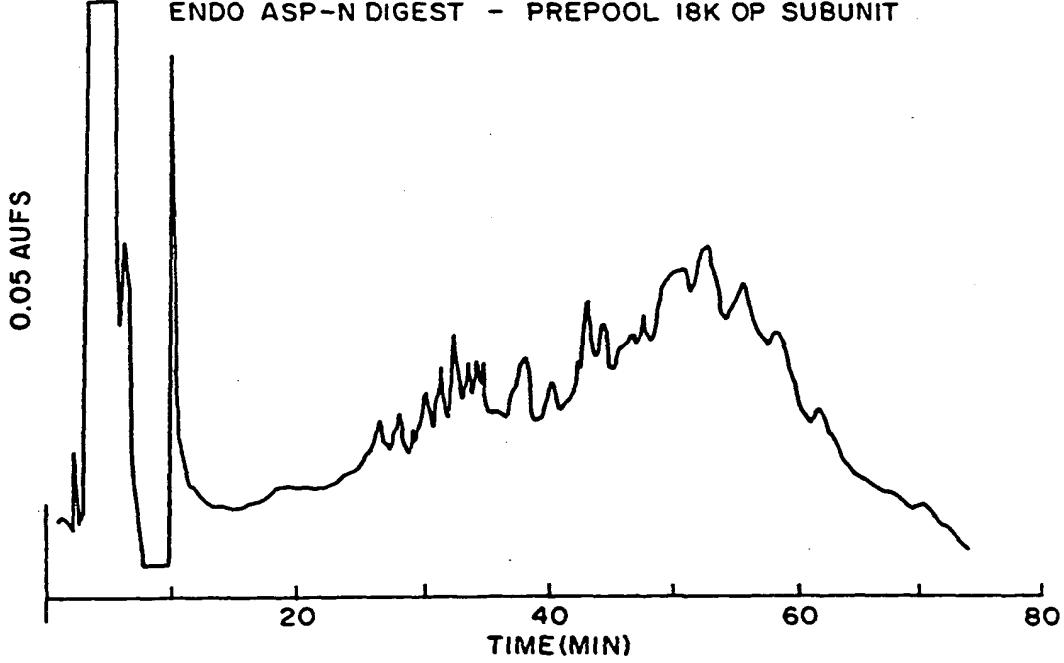


Fig. 16B

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Fig. 17A

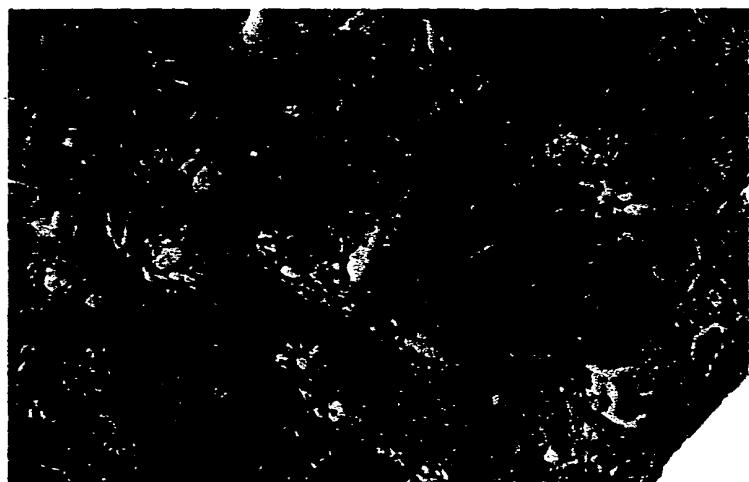


Fig. 17B



Fig. 17C

18-1
Fig.

Fig. 18-2

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n, s *	i, v, l,	n	p, s, a	q, e	k, q, t, s	i, v, l	p, a, s	k	a, p, s	c	v, a, i	p, s, a	t, e, q	q, e, d, k*	l, m	s, n, e, d	a, s, p, t	i, l, m, v	s, a, p, t	v, m, i, l	1, v, i	y, f	f, l, y	d, n	d, e,	n, q, y*	e, d, s, t		
..			
S	L	L	P	G	A	Q	P	C	C	A	A	L	P	G	T	M	R	P	L	H	V	R	T	T	S	D			
Q	A	R	G	A	A	L	A	R	P	C	C	V	P	T	A	Y	A	C	K	L	L	I	S	L	S	E	R		
Q	T	T	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
H	I	L	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
R	G	L	N	P	G	T	K	V	N	S	C	C	I	P	T	K	L	S	T	M	S	M	L	Y	F	D	D	E	Y
R	G	H	S	P	F	A	N	L	K	S	C	C	V	P	T	K	L	R	P	M	S	M	L	Y	Y	D	D	G	Q
A	V	G	V	V	P	G	I	P	E	P	C	C	V	P	E	K	M	S	S	L	S	I	L	F	F	D	E	N	K
..		
S	V	N	S	S	K	I	P	K	A	C	C	V	P	T	E	L	S	A	I	S	M	L	Y	L	D	E	N	E	
F	I	N	P	E	T	V	P	K	A	C	C	A	P	T	Q	L	N	A	I	S	V	L	Y	F	D	D	S	S	
N	N	N	P	G	K	V	P	K	A	C	C	V	P	T	Q	L	D	S	V	A	M	L	Y	L	N	D	Q	S	
S	S	I	E	P	E	Q	I	P	L	P	C	C	V	P	T	K	M	S	P	I	S	M	L	F	Y	D	N	N	D
S	S	V	N	S	S	K	I	P	K	A	C	C	V	P	T	E	L	S	A	I	S	M	L	Y	L	D	E	N	E
N	N	M	N	P	G	K	V	P	K	P	C	C	V	P	T	E	L	S	A	I	S	M	L	Y	L	D	E	N	E
M	N	N	P	G	K	V	P	K	P	C	C	V	P	T	E	L	S	A	I	S	M	L	Y	L	D	E	N	E	
N	M	N	P	G	K	V	P	K	P	C	C	V	P	T	E	L	S	A	I	S	M	L	Y	L	D	E	N	E	

Fig. 18-3

Fig. 18-4

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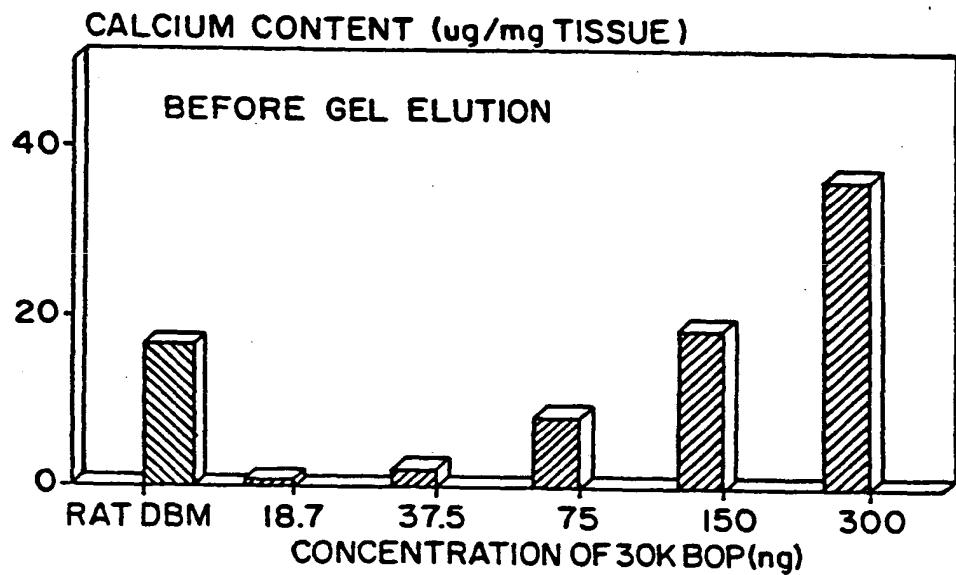


Fig. 20A

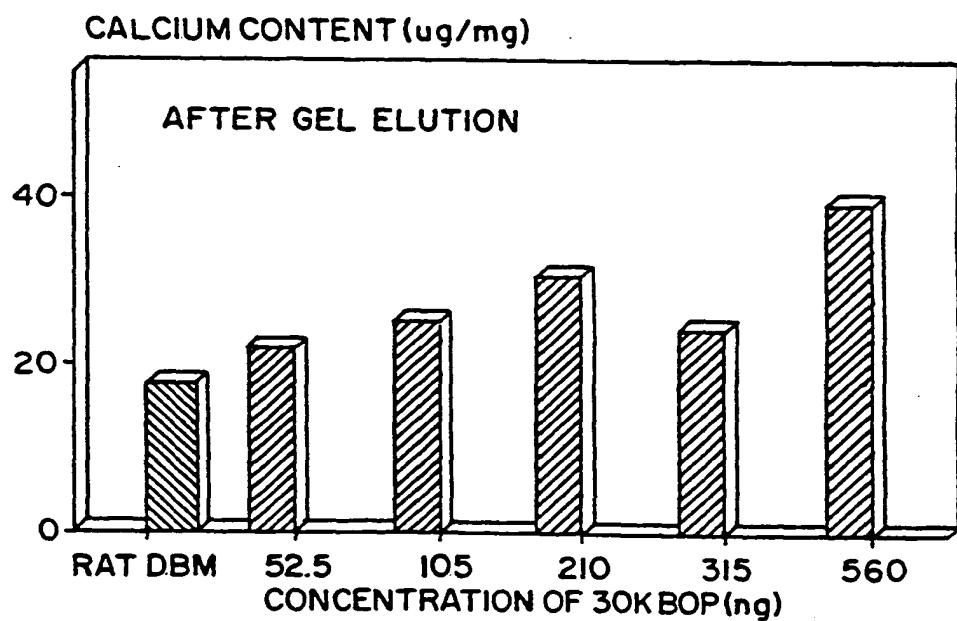


Fig. 20B

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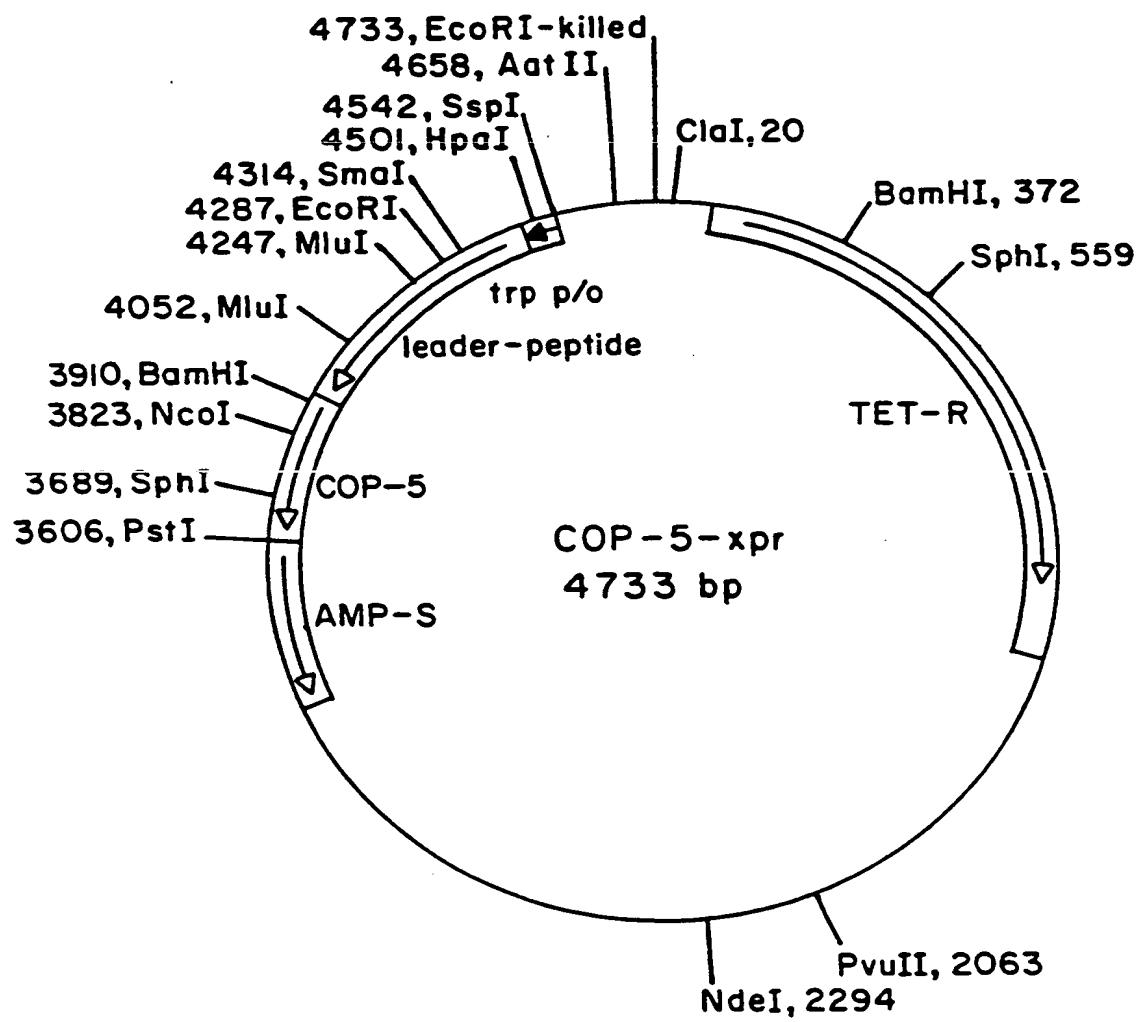


Fig. 21A

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COP-5 fusion protein

10	20	30	40	50
M K A I F V L K G S L D R D L D S				
BglIII				
60	70	80	90	100
R L D L D V R T D H K D L S D H				
110	120	130	140	150
L V L V D L A R N D L A R I V T P				
SalI Sma				
160	170	180	190	200
G S R Y V A D L E F M A D N K F N				
ECORI				
210	220	230	240	250
K E Q Q N A F Y E I L H L P N L				
MluI BglIII BspMI+				
260	270	280	290	300
N E E Q R N G F I Q S L K D E P S				
HindIII				
310	320	330	340	350
Q S A N L L A D A K K L N D A Q A				
NheI FspI				
360	370	380	390	400
P K S D Q G Q F M A D N K F N K				
410	420	430	440	450
E Q Q N A F Y E I L H L P N L N E				
MluI BglIII BspMI+				
460	470	480	490	500
G A G C A G C A A C G C G T T C A C G A G A T C T G C A C C T G C C G A A C C T G A A C G A A				
E Q R N G F I Q S L K D E P S Q S				
HindIII				

Fig. 21B-1

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510 520 530 540 550
TGC~~GAATCTGCTAGCGGATGCCAAGAA~~ACTGAACGATGCGCAGGCACCGA
A N L L A D A K K L N D A Q A P
NheI FspI

560 570 580 590 600
AGGATC~~CTAAATGGGCTGTACGTCGACTTCAGCGACG~~TGGGCTGGGACGAC
K D P N G L Y V D F S D V G W D D
BamHI SalI

610 620 630 640 650
TGGATTGTGGCCCCACCAGGCTACCAGGC~~CTTCTACTGCCATGGCGAATG~~
W I V A P P G Y Q A F Y C H G E C
StuI NcoI BsmI+

660 670 680 690 700
CCCTTCCC~~GCTAGCGGATCACTCAACAGCACCAACCACGCCGTGGTGC~~
P F P L A D H F N S T N H A V V
NheI DraIII PflMI

710 720 730 740 750
AGACCCTGGTGA~~ACTCTGTCAACTCCAAGATCCCTAAGGCTTGCTGCGTG~~
Q T L V N S V N S K I P K A C C V
MSTII

760 770 780 790 800
CCCACCGAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATGAGAA
P T E L S A I S M L Y L D E N E K
SphI

810 820 830 840 850
GGTGGTGCTGAAGAA~~CTACCAAGGAGATGGTAGTAGAGAGGCTGCC~~
V V L K N Y Q E M V V E G C G C
PflMI

860
GCTAACTGCAG
R *
PstI

Fig. 21B-2

Title: Osteogenic Devices
Inventors: Oppermann et al.
Serial No.: Not yet assigned
Atty. Docket No.: STK-010C3
Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
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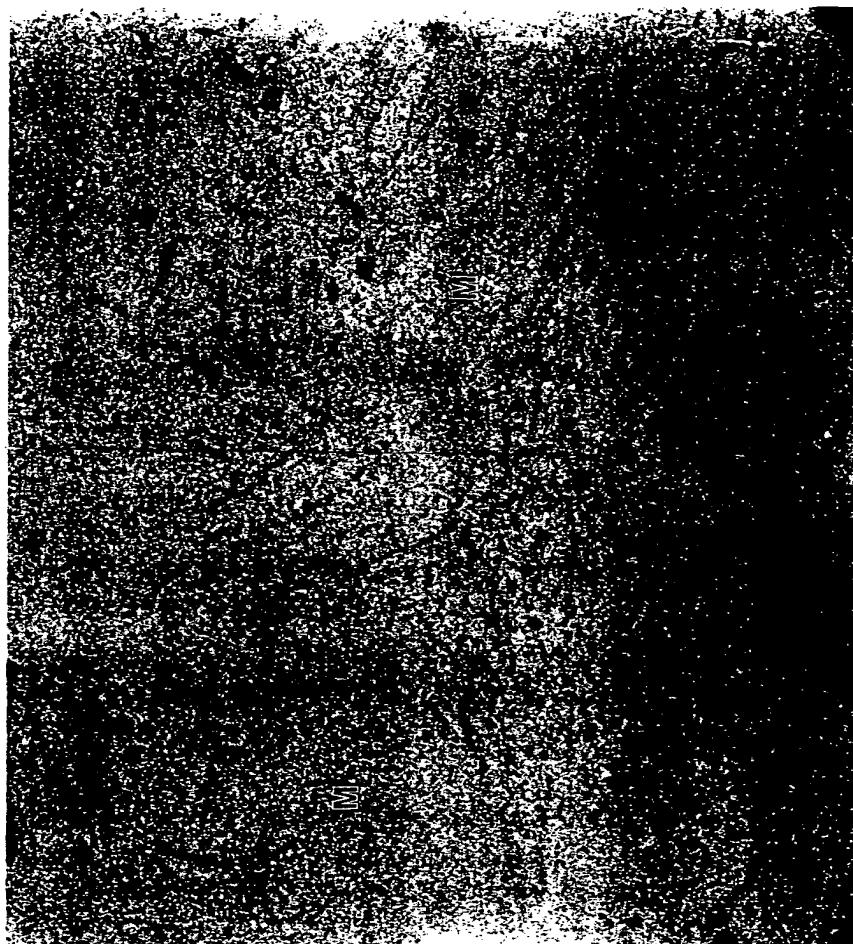


Fig. 22A

Title: Osteogenic Devices
Inventors: Oppermann et al.
Serial No.: Not yet assigned
Atty. Docket No.: STK-010C3
Atty.: Diana M. Steel
Express Mail Mailing Label No.: EV 093438159US
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Fig. 22B